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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/685,610	10/15/2003		Robert T. Brooks	EH-10796 (02-806)	5107	
34704	7590	08/28/2006		EXAMINER		
BACHMAN 900 CHAPEI		OINTE, P.C.		KRAUSE, JUSTIN MITCHELL ART UNIT PAPER NUMBER		
SUITE 1201	SIREE	1				
NEW HAVE	N, CT (06510		3682		
•				DATE MAILED: 08/28/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/685,610	BROOKS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Justin Krause	3682				
 The MAILING DATE of this communication app Period for Reply 	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10/15	5/03.					
<u>_</u>	action is non-final.					
3) Since this application is in condition for allowar	ice except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
S)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>18 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicativity documents have been received in Applicativity documents have been received.	on No ed in this National Stage				
Attachment(s)		(DTO 440)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Ll Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

Art Unit: 3682

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the curve fabricated into at least one edge of the ID bushing must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

2. Claims 1-13 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The examiner does not understand what material "electro-graphitic carbon" is. It is not adequately defined in the specification to permit one of ordinary skill in the art to make or use the claimed invention. No characteristics of the material are described to distinguish it from any other carbon based compound and it does not appear to be a recognized term of art.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1-3, 7-9 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Naudet et al (US Patent 4,706,354).

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Naudet discloses a wear resistant ID bushing (6) comprising carbon or graphite (Col 3, line 56) having a linear chamfer (see fig 2, fig 5) about an edge of the ID bushing extending at a chamfer angle.

While the intended use of the device to be used in a turbine engine has minimal patentable weight, the examiner notes that the device of Naudet is for use in a turbine engine.

Regarding claim 13, Naudet discloses an ID bushing (6), a trunnion (5) and an ID shroud (7), wherein the ID bushing is located in contact with the trunnion and said ID shroud.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 4-6 and 10-12 rejected under 35 U.S.C. 103(a) as being unpatentable over Naudet et al (US Patent 4,706,354) in view of Official Notice.

Naudet discloses all of the claimed subject matter as described above, but does not disclose a specific angle for the chamfer.

It is well known in the art to set the angle of a chamfer at approximately 45 degrees, both by definition and for the purposes of simplifying assembly by creating guiding surface to insert a shaft into a bore and to prevent damage to the sleeve due to

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misalignment between parts causing a square edge to crack or chip, and to prevent damage to the surface of the shaft.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the chamfer approximately 45 degree, since the examiner takes official notice of the fact that chamfers of approximately 45 degrees were well known at the time the invention was made and employed for the purpose of simplifying assembly and preventing damage to both the sleeve and trunnion.

Regarding the use of a curved surface (a fillet), chamfers and fillets are known within the art to be interchangeable surface reliefs which serve the same purpose... providing ease of assembly by providing a guiding surface for insertion of a shaft, and reducing the possibility of damage and stress caused by a square corner due to misalignment of parts.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to fabricate a curved surface (fillet) into one edge of the ID bushing since the examiner takes Official Notice of the fact that fillets were well known at the time the invention was made and employed for the purpose of providing a guiding surface to ease assembly, and to reduce the possibility of damage and stress from a square corner on the bushing.

Conclusion

7. The following are suggested formats for either a Certificate of Mailing or Certificate of Transmission under 37 CFR 1.8(a). The certification may be included with

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all correspondence concerning this application or proceeding to establish a date of mailing or transmission under 37 CFR 1.8(a). Proper use of this procedure will result in such communication being considered as timely if the established date is within the required period for reply. The Certificate should be signed by the individual actually depositing or transmitting the correspondence or by an individual who, upon information and belief, expects the correspondence to be mailed or transmitted in the normal course of business by another no later than the date indicated.

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Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

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Typed or printed name of person signing this certificate:
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Please refer to 37 CFR 1.6(d) and 1.8(a)(2) for filing limitations concerning facsimile transmissions and mailing, respectively.

The prior art made of record and not relied upon is considered pertinent to 8. applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Krause whose telephone number is 571-272-3012. The examiner can normally be reached on Monday - Friday, 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SUPERVISORY PATENT EXAMINER